The first is the agricultural department where is shown sugar made at factory, several interior views, girther the machinery and processes. The attention of the sight seems is also called actively the sight seems is also called the sight seems is also called the sight seems is also called an actively with American made machinery and using beets raised at large and the second points of the sight seems which is a solid ton of beets every twenty-four hours. Utah produced hast season over the extraction of the produced hast season over the extraction of the season of the se the Lehi factory and pictures of that factory, several interior views giving

THE MIDWINTER FAIR. he cannot travel that distance in a QUEER ELECTRIC TOYS.

THE MIDWINTER FAIR.

Now SUNDAY IS SPENT AT THE SANDONING.

A Pres Relected with the Sandoning-View of the Sandoning of the S

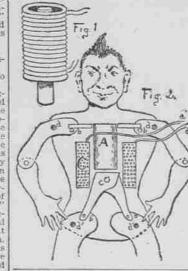
Their Vast Extent, Commercial Im-

An Electric Jumping Jack-The Key -The Automatic Switch.

BY FROP, T. OCCONOR SLOANE.

If a current of electricity is passed through a coll of insulated wire, any piece of Iron will be attracted toward the cen-

A coil of cotton-covered wire, such as lescribed in the preceding article. If the ends of the wire are connected to the ter-ninals or wires of a battery, will lift and ustain a piece of iron with considerable orce. The coil must be held with its open-ng vertical. It will then, if the battery is strong enough, hold up a large null or other bar of iron, in a way quite surpris-ing to one not familiar with the experi-ment. The coll and bar of Iron are shown in Fig. 1. As the Iron plunges into the coll the two are often called the "coll and



view of the coil is given, as if cut in halves and the front half removed. This coil may be made with No. 20 to 24 cotton-covered wire. The wire may be wound on a thin paper tube, and then dippel in glue and dried theroughly, so as to form a solid mass. The plunger, A. may be a single bron rod, or made up of a bundle of short straight pleces of from wire wound with thread and dipped in glue and dried.

The arms and legs of the jack work on pivots, d. d. d. Fins b, b, b, b, b, project from their miner ends. A pair of borizontal pins extend from the upper end of the plunger, and rest on the pins b, b. A sort of tongs, of strips of wood jointed at c, have their lower ends pluvaded on the pins b, b. These plns may take part of the weight of the plunger. The whole may be so proportioned that the plunger will have its weight just sustained by the arms and legs.

Un connecting the wires of the coil to the battery, the plunger will be drawn lown, and the jumping lack will throw up his arms and legs. On detaching one wire, and so breaking the current, the plunger will be lifted, and the arms and legs will be lifted.

THE KEY AND ITS USE.

THE KEY AND ITS USE.

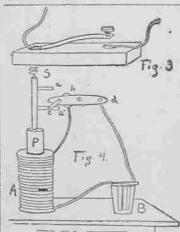
To effect rapid connections and discennections, a "key" is convenient. A simple
one is shown if Fig. 3. Take a strip of
brass or even tin, a couple of inches long,
and screw one end to a piece of board.
The brass strip must be bent so the free
end will be about a quarter of an inch
above the board. To the screw which
holds the strip to the board, a short wire
is connected. Another is connected to a
second screw just under the raised and
of the strip or switch.

If now the ends of the wires of an open
electric circuit are attached to the switch
wires on depressing the raised end of the
switch the circuit will be closed and the
current will pass. On releasing the switch
it will rise and the current will cease. A
small wooden knob raw be attached to

In case you wish to have the plunger work up and down in the coll without your assistance, you can construct un automatic switch. The apparatus is shown

automatic switch. The apparatus is shown in Fig. 4.

The battery is indicated at B (in reality at would be much larger). A strip of least or copper, c. is pivoted at d to an apright board or other support. This is termed a switch. One wire from the battery leads to the switch pivot. The other and of the switch, in the position shown, presses against a stud, b. A brass headed furni-



Rudy's Pile Suppository is guaran-teed to cure Piles and Constipation, or money refunded. 50 cents per box. Send stamp for circular and free sam-ple to Martin Rudy. Lancaster. Pa. For sale by Godbe-Pitts Drug Co., Salt Lake City.

The Negliges shirt in Madras, Oxford or cheviot cloths sgain popular this season. We have them in variety, Brown, Terry & Woodruff Co., 142 Main street.

Capital, Fully Paid, . \$500,000. Surplus, - - - - \$50,000.

HESER J. GRANT, President.

WM. B. PRESTON, Vice-President, HEBER M. WELLS, Cashier.

### \* DIRECTORS. \*

GENERAL BANKING BUSINESS. ounts Solicited, Large and Smail. cial attention to country trade. ections a specialty. Correspondence vited.

## P. W. Madsen.

51, 53 and 55 East First South Street.

Has Just Received a very extensive assortment of



Curtains

All of the Newest and Most Beautiful Designs. Several carloads of

## Furniture

Greatly Reduced Prices in all Departments. Come and Examine Goods and Prices and be Convinced that I Sell the Cheapest.





## KNITTING AND CROCHET SILK



Corticelli Spool Silk, Wash Embroidery Silk, Etc.



MILLS CORTIGELLI & MILLS

STRONG

GREATEST IN THE WORLD. C. H. SAMPSON, Agt., St. Louis:

## 

DISEASES OF MEN 46 & 48 W. Second South St., CHATTERL Sait Lake Gity Utah

\*\*\* A Regular Graduate :: Medicine and Special Produtioner. Authorized to NERVOUS, CHRONIC and PRIVATE DISEASES, (whether entired by Improduced Continuous or Moral, Mental and Physical Wentonsees, Seminal Weakness, onigh Contaging or Moral, Mental and Physical Wentlesses. Seminal Weakness, ungar losses.

Sexual Debility, these of sexual powers, Nervous Debility, those of sexual powers, Nervous Debility, those of sexual powers, Nervous Debility, those of sexual powers with the bar or seminal. Hydrocele, to provide condition of the bag or scrotting, BLOOD, SKIN and VENEREAL DISEASES, (Synthing Contribute, Giert, Stricture, Kidney and Bladder Provising and Microscopic and Analytic examinations made. No experimenting. Combit cases guaranteed; where doubt exists it is frankly stated. Moderate unarges, payable by easy instalments, and as low is can be made using only the heat-every case require.

MANY MEN are troubled with too frequent evacuations of the blade and weakening at the system in a manuer the patient cannot account for. On examining urinary deposits, a ropy sediment will often be found, and sometimes particles of albainen appear, or the color be of a unit milkish hue, again changing to a dark or torpid appears.

Disease, etc. State your case and get berms for a curative course of treatment. Secreey observed either in person or by mail. A friendly letter or call may save you future suffering and shame, and add golden years to lite. 22 One personal interview if possible, 48 OUR SUCCESS is based upon facts. First-Practical experience. Second—Every case is especially studied, thus starting aright. Third—Medicines are prepared in our laboratory exactly to suit each case, thus effecting a cure without injury.

I MAY OBSERVE That those who wish to apply for advice or assistance may confidence, as the most timid may be a suit of the confidence, as the most timid may be a suit of the confidence of the co I MAY OBSERVE That the

In office from 9. a. m. to 7 p. m. Sundays, or call on DR. OTTERBOURG. on the top of the third in obscure and urgent cases. Reception Roam 6. <del>\$6@6\$5@6\$6@6\$6@6@6@6@6@6@6@6</del>\$

PENNYROYAL PILLS ever construction of the control o

For sale by J. B. Farlow, Druggist, McCornfex Building, Sait Lake City. Ut.

# YOUR OPPORTUNITY

THE SALT LAKE HERALD now offers its Readers the Finest Illustrated Book Ever Published,

# Picturesque America.

This Magnificent Work was originally published by the Appletons at 50 cents for each of the 30 Parts. Over a quarter of a million of them sold in America and Europe. A Genuine

->®STEEL ENGRAVING®%~

WITH EVERY PART FOR .....

# 1 LI DIN CENTS

AND FOUR COUPONS,

Which is Less than Cost of Production. Each and every part contains a beautiful Steel Engraving, and every page of the book is embellished by a handsome Wood Engraving from drawings by the most celebrated Artists. The work was edited by

WM. CULLEN BRYANT.

-FOR-

->® TWENTY YEARS ®₹~

# Picturesque America

Has been considered the greatest publication of its kind,

and Secure These

and has never been equaled. The parts will be issued by THE HERALD each

week, and are

CUT out four Coupons Just Like this, bring or send them WITH TEN CENTS,

Beantiful Illustrations and Engravings. Mail Orders 3 Cents Extra-

warranted to be exactly as the original first published.

## ONLY THINK OF IT!

Ten Cents a Week is all it will cost you to secure this invaluable work.

A New Part Arrives Each Week.

SALT LAKE

State Number Required.